

ANKARA 2019

# Uygulamalı C++ Kursu - 3. Hafta

Muhammet Kara

Yazılım Müh. @ Collabora Productivity

@muhamm3tkara



ANKARA 2019

# LibreOffice Developer Bootcamp – Week 03

Muhammet Kara

**Software Eng. @ Collabora Productivity**

@muhamm3tkara





# Geçen Hafta

- Veri Tipleri
- Operatörler
- Dizgeler (Strings)
- Mantıksal Doğru-Yanlış (Boolean True-False)
- if...else ifadeleri (Koşullu dallanma)
- Diziler (Arrays)
- Fonksiyonlar



# Bu Hafta

- Math Kütüphanesi
- Switch İfadeleri
- Döngüler (for, while, do-while)
- Break/Continue
- Başvurular (References)
- İşaretçiler (Pointers)

# Math Kütüphanesi

# Math Kütüphanesi



```
#include <iostream>
#include <cmath>

using namespace std;

int main()
{
    cout << min(3,5) << endl;
    cout << max(3,5) << endl;
    cout << sqrt(64) << endl;
    cout << round(2.6) << endl;
    cout << log(2) << endl;

    return 0;
}

// https://www.w3schools.com/cpp/cpp\_math.asp
```

# Math Kütüphanesi – Ekran Çıktısı



```
3
5
8
3
0.693147
```

# Switch İfadeleri



# Switch İfadeleri



```
switch(bool_ifade) {  
    case x:  
        // code block  
        break;  
    case y:  
        // code block  
        break;  
    default:  
        // code block  
}
```

# Switch İfadeleri - Örnek Kod



```
#include <iostream>
using namespace std;

int main() {
    int day = 4;
    switch (day) {
        case 1:
            cout << "Monday";
            break;
        case 2:
            cout << "Tuesday";
            break;
        case 3:
            cout << "Wednesday";
            break;
        case 4:
            cout << "Thursday";
            break;
        case 5:
            cout << "Friday";
            break;
        case 6:
            cout << "Saturday";
            break;
        case 7:
            cout << "Sunday";
            break;
    }
    return 0;
}
```

**Döngüler (for, while, do-  
while)**

# Döngüler



```
for (statement 1; statement 2; statement 3) {  
    // code block to be executed  
}
```

```
while (condition) {  
    // code block to be executed  
}
```

```
do {  
    // code block to be executed  
}  
while (condition);
```

**Break/Continue**

# Break/Continue



```
for (int i = 0; i < 10; i++) {  
    if (i == 4) {  
        break;  
    }  
    cout << i << "\n";  
}
```

```
for (int i = 0; i < 10; i++) {  
    if (i == 4) {  
        continue;  
    }  
    cout << i << "\n";  
}
```

# Başvurular (References)

# Başvurular



```
#include <iostream>
#include <string>
using namespace std;

int main()
{
    string food = "Pizza";
    string &meal = food;

    cout << food << "\n";
    cout << meal << "\n";
    cout << &meal << endl;
    cout << &food << endl;

    return 0;
}
```



# İşaretçiler (Pointers)

# İşaretçiler (Pointers)



```

#include <iostream>
#include <string>
using namespace std;

int main() {
    string food = "Pizza"; // A string variable
    string* ptr = &food; // A pointer variable that stores the address of food

    // Output the value of food
    cout << food << "\n";

    // Output the memory address of food
    cout << &food << "\n";

    // Output the memory address of food with the pointer
    cout << ptr << "\n";
    return 0;
}
```

Ödev

**Teşekkürler!**